



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,994	03/31/2004	Long-Jyh Pan	250210-1120	1439

24504 7590 08/12/2004

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP
100 GALLERIA PARKWAY, NW
STE 1750
ATLANTA, GA 30339-5948

EXAMINER

ABRAMS, NEIL

ART UNIT PAPER NUMBER

2839

DATE MAILED: 08/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/814,994	Applicant(s) PAN, LONG-JYH	
	Examiner Neil Abrams	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-16 is/are rejected.
- 7) ☒ Claim(s) 5 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

Claims 9, line 2 the second conductor" is incorrect, see claim 1, line 6.

Claims 13-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13, line 1 should be amended to refer to "device with position detection structure" or equivalent to tie in with lines 17, 18 limitation.

Claims 1-4, 6, 7, 8, 12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Moskin.

Moskin discloses, figs, 2-3, housing 21, first conductor 41, second conductors 31, 33, etc, connector 39, which moves in the housing to join the first conductor to one of the second conductors. Should the matter be at issue also obvious Moskin device functions as recited in claim 1. Fig. 4, 5 device with connector 63 also applied. Housing corners form engaging portions (claim 2). For claim 3, obvious to use mercury drop, see 113, which is readable as having two protrusions corresponding to two of the housing corners. Claims 5, 6, also met by Moskin. For claim 8, notes use of mercury drop and ^{also} ~~also~~ that copper for ball 39 or block 63 would be standard. ^{As} ~~also~~ alternative for claims 3, 4, corners of block 63 figs. 4, 5 are read as protrusions that correspond to housing corners and are shown to engage contacts. While not required, also obvious to cutout parts of connector 63 to form it into a X-like shape, with one protrusion at each housing corner.

Claims 9, 10, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moskin in view of Wu, Robinstein, Dawson, Hall and Woods.

For claims 9, 10 use of ferrite for contacts is well known as shown by Dawson and Wu and Robinstein at 21, 22. Obvious to form Moskin contacts 39, 31, 63, 55, etc. ^{of} steel as is standard in view Dawson and WU or to enable magnetic effects in view of Robenstein and Woods.

For claim 11, obvious to use resistors in view of Woods figs. 10, 13, at 130, etc. This would enable special circuits to be created. Also obvious to use resistor in view of Hall at 156 to provide a low power side.

This would result in different value resistances at each second conductor.

Claim 13 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Amberny.

Amberny discloses, fig. 1, pcb 10, housing 14 with engaging portions at corners, 12a at top and three second conductors 12a having ends that engage the housing 14 and a connector 22 movable in the housing to connect the first conductor to ones of the second conductors. Should issues arise recited features deemed obvious variations.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amberny in view of Maskin.

Amberny does not use a connector with clearly defined protrusions. Moskin connector 63, as shown or reformed into X-shape, see above, has protrusions at corners. Obvious to use such type connector in Amberny fig., 1 device as it is a change of one feature for its equivalent that produces the same result.

Art Unit: 2839


Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 16~~8~~ overcomes prior art.

Any inquiry concerning this communication should be directed to Neil Abrams at telephone number (571)272-2089.

Abrams/ds

08/09/04


NEIL ABRAMS
EXAMINER
ART UNIT 322